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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Henryk LUBON, *et al.*

Serial No. 08/982,284

Filed: December 1, 1997



Attorney Docket No. 030523/0141

Group Art Unit: 1632

Examiner: K. Hauda

For: Methods For The Degradation And Detoxification Of Organic Material Using Urine
Produced By Transgenic Animals And Related Transgenic Animals And Proteins

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.56

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED

AUG 20 1999

TECH CENTER 1600/2900

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty to disclosure pursuant to 37 C.F.R. § 1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie prior art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 C.F.R. § 1.97(b), before the mailing of the first Office Action on the merits and within three (3) months of the mailing date of the foreign search report.

CONCISE EXPLANATION OF
RELEVANCE OF EACH DOCUMENT

Any document listed on the attached PTO-1449 was cited as being relevant during the prosecution of the corresponding PCT application. A copy of the International Search Report is attached setting forth the portion of each document considered relevant by the examiner. The first four documents were previously submitted on June 11, 1999, therefore duplicate copies are not being submitted herewith. English-language counterparts of foreign-language documents have been provided where readily available. The absence of a translation or an English-language counterpart document does not relieve the PTO from its duty to consider any submitted document (37 CFR §1.98 and MPEP §603).

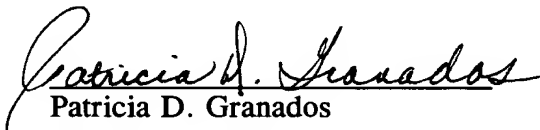
Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialized copy of Form PTO-1449 be returned in accordance with M.P.E.P. § 609.

CERTIFICATION

The undersigned hereby certifies in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this Information Disclosure Statement was cited in communication from foreign patent office in counterpart foreign application not more than three (3) months prior to filing this Statement.

Respectfully submitted,

August 18, 1999
Date

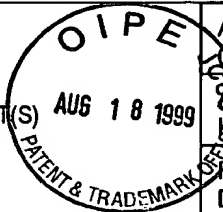

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Attach # 15

Sheet 1 of 1

FORM PTO 1449 (modified)
U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
LIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)



ATTY DOCKET NO.
030523/0141

SERIAL NO.
08/982,284

APPLICANT
Henryk LUBON, et al.

Date Submitted to PTO: August 18, 1999

FILING DATE
December 1, 1997

GROUP
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
0 749 876 A	12/27/96	EP			Abstract
0 051 876 A	05/19/82	EP			
92 06590 A	04/30/92	WO			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/25193

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 A01K67/027 B09B3/00 A01K1/03 A01K31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 95 22249 A (AMERICAN NAT RED CROSS ; VIRGINIA TECH INTELL PROP; UNIV N CAROLINA) 24 August 1995 (1995-08-24) page 5, line 8 - line 15; claim 26 ---	1-15, 42
A	FR 2 717 500 A (INSTITUT PASTEUR ; INST NAT. SANTE RECH MED) 22 September 1995 (1995-09-22) page 6 - page 7, paragraph 3 ---	1-15, 42-44
A	WO 96 39494 A (UNIV NEW YORK ; SUN TUNG TIEN (US)) 12 December 1996 (1996-12-12) examples 1,2 --- -/--	1-15



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

13 July 1999

Date of mailing of the international search report

23.07.99

Name and mailing address of the ISA

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Authorized officer

Cupido, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/25193

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>Velander W. "Methods for the degradation and detoxification of organic material using urine produced by transgenic animals and related transgenic animals and proteins. 29 July 1997. Virginia Tech Intellectual Properties, Inc. Disclosure No.:98-011. Available from Internet via http://www.vtip.org XP002099574 the whole document</p> <p>---</p>	1-24, 32-44
X	<p>EP 0 749 876 A (PEUGEOT ;CITROEN SA (FR)) 27 December 1996 (1996-12-27) column 7, line 7 - line 32; figure 1</p> <p>---</p>	25-29,31
X	<p>EP 0 051 876 A (THOREN CAGING SYSTEMS INC) 19 May 1982 (1982-05-19) page 6</p> <p>---</p>	25-29,31
X	<p>WO 92 06590 A (US GOVERNMENT) 30 April 1992 (1992-04-30) page 7; figure 1</p> <p>-----</p>	25,26, 28,30

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 98/25193

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9522249	A	24-08-1995	CA 2183546 A EP 0744891 A JP 10500003 T	24-08-1995 04-12-1996 06-01-1998
FR 2717500	A	22-09-1995	NONE	
WO 9639494	A	12-12-1996	US 5824543 A AU 5961596 A CA 2221453 A EP 0837931 A	20-10-1998 24-12-1996 12-12-1996 29-04-1998
EP 0749876	A	27-12-1996	FR 2735737 A	27-12-1996
EP 0051876	A	19-05-1982	US 4343261 A JP 1661428 C JP 3021132 B JP 57083233 A US 4402280 A	10-08-1982 19-05-1992 22-03-1991 25-05-1982 06-09-1983
WO 9206590	A	30-04-1992	US 5134969 A AU 8862091 A	04-08-1992 20-05-1992